

Technical Data / Hardware Details

Performance Feature/ Function	DAKspro 200 (based on DAKS-200 hardware)	DAKspro 300 (based on DAKS-300 hardware)
Housing/dimensions	Server in 19-inch housing (1U) for rack mounting	Server in 19-inch housing (3U) with CompactPCI modules as desktop unit or for rack mounting
Basic server features	<ul style="list-style-type: none"> ▪ Robust process computer architecture in low-power design ("green IT") ▪ Comprehensive server self-monitoring including fault messages ▪ Very high availability with MTBF values of over 400,000 hours ▪ Pluggable memory card for short repair times (MTTR) ▪ Emergency operation in case of data network failure possible in connection with ISDN interfaces and SMS modem ▪ No rotating components prone to failure: no hard drive, no fan 	
Operating system(s)	Dual-processor system: <ul style="list-style-type: none"> ▪ Core 1 with Linux™ operating system ▪ Core 2 with µClinux™ operating system 	Multi-processor system: <ul style="list-style-type: none"> ▪ Main computer with Linux™ operating system
Ethernet-LAN ports	2x 10/100BASE-T	2x 10/100/1000BASE-T (GbE) with channel bonding
ESPA-X-based LAN data interfaces <i>(optionally unencrypted or TLS-encrypted)</i>	In total up to 5: <ul style="list-style-type: none"> ▪ for host couplings ▪ to the Mail-to-Phone server ▪ to DAKS-Satellite peripheral devices, each with 1 ESPA 4.4.4 interface, 16 digital inputs and 8+1 digital outputs 	In total up to 40x: <ul style="list-style-type: none"> ▪ for host couplings ▪ to the Mail-to-Phone server ▪ to DAKS-Satellite peripheral devices, each with 1 ESPA 4.4.4 interface, 16 digital inputs and 8+1 digital outputs
LAN data interface to DAKS-Mobile-Clients	<ul style="list-style-type: none"> ▪ Support of up to 3,000 DAKS Mobile Clients (DMC) ▪ Client connections via Proxy server (usually within the DMZ) 	
Additional LAN data interfaces and protocols	<ul style="list-style-type: none"> ▪ TR500 to a host system (UDP-based, unencrypted) ▪ xLink-100e to a host system (TCP-based, unencrypted) ▪ SNMP to an SNMP-Manager ▪ TNPP to external paging systems ▪ SMPP to an external UMTS gateway ▪ UCP or SMPP to a Short Message Service Center (SMSC) ▪ Raw / Port 9001 to a system printer ▪ VCON protocol to the VCON service terminal for configuration, download and tracing ▪ Virtual serial interface with RegEx (TCP socket) 	
Serial ports	Two: RS232 or RS422, electrically isolated	Up to 8: RS232, RS422 or RS485, electrically isolated
Supported serial data interfaces	<ul style="list-style-type: none"> ▪ ESPA 4.4.4 or TAP with/without callback functionality ▪ TAP, also with callback functionality ▪ VIT1, FTI1 ▪ DUST3964R for Simatic S5 ▪ SIGMASYS coupling via SM port ▪ Modem (analog, ISDN or radio) 	

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USB-Host-Ports	Two: for digital I/O, system printer, radio modem (if needed via hub)	Two: for DCF-77 converter, system printer
Digital inputs (= contact/digital inputs)	Up to 32/64 (with/without short circuit and line break detection) for process activations and status changeovers	Up to 32 direct, and up to 704 remote process activations and status changeovers via RS485
Digital outputs (= contact/digital outputs)	1 built-in special relay output with make and break contact, plus up to 16 more for process, system and error reports	Up to 16+2 digital outputs for process, system and malfunction messages
Audio I/O (AF) ports directly at the server	–	Up to 8x IN and 8x OUT, for: <ul style="list-style-type: none"> ▪ playback of external audio sources ▪ recording of Conferences ▪ direct control of PA systems
Audio I/O via remote DAKS-AudioConnect devices	Yes, registered at the PBX system	Yes, registered at the PBX or at DAKSpro
DCF-77 synchronization	Option, via DCF77 port	Option, via USB-Host port and converter
Power supply	<ul style="list-style-type: none"> ▪ Two internal power supply units usable in parallel (redundant): PSU 1 from 115/230 VAC, PSU 2 from 24/48 VDC ▪ Optional power supply from 2x 115/230 VAC via external professional AC/DC converter 	<ul style="list-style-type: none"> ▪ Either from 48 VDC or from 115/230 VAC ▪ Optional redundant power supply from two PSUs (DC+DC, AC+AC or DC+AC)
Power consumption	<ul style="list-style-type: none"> ▪ For AC power supply: approx. 25 watts ▪ For DC power supply: approx. 20 watts 	<ul style="list-style-type: none"> ▪ Depends on system size and set-up; usually approx. 30 watts
Voice processing	<ul style="list-style-type: none"> ▪ Channel-individual: playback of messages and generation of tones and DTMF ▪ Variable voice interconnection uni- and bidirectional incl. Conferences (on the hardware side without any restriction of the number of Conferences and conferees) ▪ Direct recording and playback of composed announcements, consisting of up to 16 partial announcements 	
Voice memory	1 hour	2 hours
Voice communication	<ul style="list-style-type: none"> ▪ 5 to 30 parallel channels ▪ ISDN trunking (S_0, S_{2M}) with D-channel protocol QSIG or CorNet-NQ and channel-indiv. inband DTMF recognition ▪ VoIP trunking with SIP or SIP-Q signaling, unencrypted or encrypted (SRTP; SIP over TLS, SDES) ▪ Support of geo separation and OpenScape-Voice/OpenScape-Branch configurations ▪ Codec: 64 kbit/s G.711 A-law or μ-law 	<ul style="list-style-type: none"> ▪ 5 to 480 parallel channels ▪ ISDN trunking (S_0, S_{2M}) with D-channel protocol QSIG or CorNet-NQ and channel-indiv. inband DTMF recognition ▪ VoIP trunking with SIP or SIP-Q signaling, unencrypted or encrypted for up to 60 channels (SRTP; SIP via TLS, SDES) ▪ Support of geo separation and OpenScape-Voice/OpenScape-Branch configurations ▪ Codec: 64 kbit/s G.711 A-law or μ-law ▪ Voice communication with a VoIP subsystem (e.g. hospital nurse call system) ▪ Registrar and switch for SIP or DAKS-AudioConnect devices that are directly registered at DAKSpro

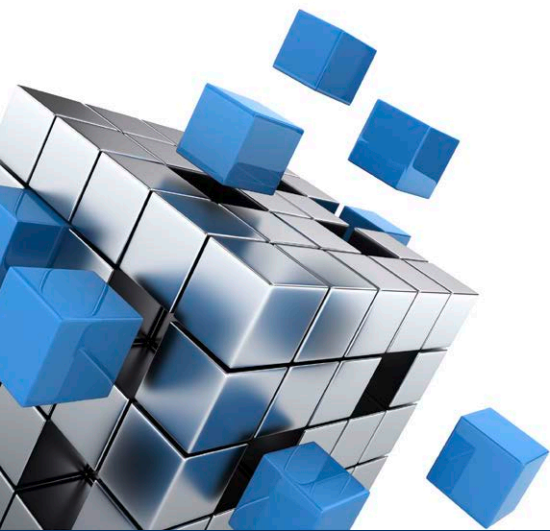
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Special telephony features with Unify OpenScape 4000 using CorNet-NQ or SIP-Q <i>(Features available in combination with other PBX systems upon request)</i>	<ul style="list-style-type: none"> ▪ Variable ring tones at called phones: <ul style="list-style-type: none"> – to signal normal calls – to signal urgent calls (typically for: calls from outside) and – to signal alarm/emergency calls ▪ If subscriber lines are busy: <ul style="list-style-type: none"> – intrusion or emergency intrusion with neutral info announcement – forced disconnect of calls, or – call waiting ▪ If trunks are busy: <ul style="list-style-type: none"> – automatic release or – emergency intrusion with neutral info announcement ▪ Ignore call forwarding or call deflection, e.g. to prevent calls from activating voice-mail ▪ Ignore call pickup groups ▪ Direct access to executives in active executive-secretary-configurations ▪ Speakerphone control, i.e. automatic activation of the loudspeaker without lifting the receiver ▪ Override do-not-disturb protection ▪ In combination with HFA telephones (wired or DECT): <ul style="list-style-type: none"> – multi-line alphanumeric display outputs (2-line display and scroll option) ▪ Dialogs with user prompting on the phone display ▪ Support of the keypad function (instead of inband DTMF) ▪ Route optimization (path replacement) ▪ Multi-level precedence and preemption (MLPP) ▪ Positioning of DECT users (query of base station field strength) 	
SMS dispatch	<ul style="list-style-type: none"> ▪ Via GSM-SMS-Modem – analog or ISDN (connected serially) ▪ Via GSM-SMS radio modem (connected via USB or serially) ▪ Via TCP/IP with UCP or SMPP protocol via Short Message Service Center (SMSC) or via UMTS gateway, respectively 	
Interface to system printer	Spooled, either via LAN or USB; printer protocol: RAW / Port 9001	
Supported languages	German, English, French (user interfaces, text outputs and announcements)	
Operating temperature	+5°C to +35°C (+41°F to +95°F)	
Storage temperature	-20°C to +70°C (-4°F to +158°F)	
Rel. humidity	5% to 80% (non-condensing)	
Certifications	UL, FCC and CE	
National approvals <i>(country codes pursuant to ISO 3166)</i>	<ul style="list-style-type: none"> ▪ EU countries: AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK ▪ Non-EU countries: AU, CA, CH, IN, MY, NZ, SG, TH, TR, US 	

General information on DAKSpro V9

V9 is a major release upgrade for DAKSpro.

DAKSpro V9 offers existing DAKSpro customers numerous advantages in practically all applications (for details see the separate document 'Innovations' as well as the product information on the individual applications and extensions).

Upgrades from older DAKSpro systems are carried out according to the currently valid price list items.



DAKS

... it's all about responsibility!



Silberbachstrasse 10
65232 Taunusstein-Wehen
Germany

Phone: +49 6128 963-0
Fax: +49 6128 963-499
Email: info@tetronik.com
Website: www.tetronik.com

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